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## UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	CTSZ.106510	)
First Inventor	Robert E. McMillen	
Title	Assembly of Crossing Elements and Method of Constructing Same	7
Express Mail Label No.	EV 141463751 US	7

APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Mail Stop	sioner for Patents p Patent Application t 1450 ria VA 22313-1450				
1. Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27.  3. Specification [Total Pages 14] (preferred arrangement set forth below) - Descriptive title of the invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description	ii. Paper	endix) d Sequence Submission Form (CRF) ence Listing on: CD-R (2 copies); or				
- Claim(s)	ACCOMPANYING A	PPLICATION PARTS				
- Abstract of the Disclosure  4. Drawing(s) (35 U.S.C. 113) [Total Sheets 6]  5. Oath or Declaration [Total Sheets 2] a. Newly executed (original or copy) (Unexecuted) b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)  i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).  6. Application Data Sheet. See 37 CFR 1.76	9. Assignment Papers (co 10. 37 CFR 3.73(b) Statem (when there is an assignormal statement) 12. Information Disclosure Statement (IDS)/PTO-1 13. Preliminary Amendmen 14. Return Receipt Postcan (Should be specifically in Certified Copy of Priority (if foreign priority is claim Nonpublication Request (b)(2)(B)(i). Applicant mor its equivalent.  17. Volume 1.	over sheet & document(s)) tent Power of Attorney cument (if applicable) Copies of IDS 499 Citations att at (MPEP 503) itemized) by Document(s) med) at under 35 U.S.C. 122 aust attach form PTO/SB/35 at under 35 U.S.C. 119(e) of U.S. No. 60/395,885, filed July 15, 2002.				
18: If a CONTINUING APPLICATION, check appropriate box, and supp	ly the requisite information below ar	nd in the first sentence of the				
Specification following the title, or in an Application Data Sheet under 37 CFR 1.76:  Continuation Divisional Continuation-in-part (CIP) of prior application No.:  Prior application information: Examiner Art Unit: For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.						
19. CORRESPOND	ENCE ADDRESS					
Customer Number or Bar Code Label (Insert Customer With print and the label here)  OR Correspondence address below						
Name 052	751					
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	Registration No. (Attorney/Agent)					
Signature San M. Nickmow	Registration No. (Attorney/Agent)	48,538 Date 07/15/03				
ACOUNT !! UNIVERSE		Date   07/15/03				

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Approved for use through 04/30/203. OMB 0651-0032

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FEE TRANSMITTAL		Complete if Known					
FEE IRAN	SIVII I AL	Application Number					
for EV	2003	Filing Date					
for FY 2003  Effective 01/01/2003. Patent fees are subject to annual revision.		First Named Inventor	Robert E. McMillen				
	-	Examiner Name					
Applicant claims small entity status	s. See 37 CFR 1.27	Art Unit					
TOTAL AMOUNT OF PAYMENT	(\$) 840.00	Attorney Docket No.	CTSZ.106510				

Check	METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Deposit Accounts   19-2112   Shook, Hardy & Bacon, LLP   Name   Shook, Hardy & Bacon, LLP   1051   130   251   65   Surcharge - late filing fee or oath   1052   25   25   Surcharge - late filing fee or oath   1052   25   25   Surcharge - late provisional filing fee or oath   1052   25   25   25   Surcharge - late provisional filing fee or oath   1052   25   25   25   25   25   25   25		3. ADDITIONAL FEES					
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Shook, Hardy & Bacon, LLP   1052   50   2052   25   Surcharge - late provisional filing fee or cover sheet. Non-English specification   1053   130	Account 19-2112			1	• •	Surcharge - late filing fee or oath	Fee Paid
Account Name The Director is authorized to: (check all that apply) Charge fee(s) indicated below Count Charge fee(s) indicated below Examination Charge fee(s) indicated below Examination Charge fee(s) indicated below. except for the filing fee to the above-identified deposit account.  FEE CALCULATION 1. BASIC FILING FEE Large Entity Small Entity Fee Fee Fee Fee Fee Description Foe Paid 1007 750 2001 375 Utility filing fee 1008 300 2002 165 Design filing fee 1008 750 2004 375 Reissue filing fee 1008 180 2005 80 Provisional filing fee 1008 180 200 200 200 200 200 200 200 20						J J	
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Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.   1805 1,840*	Charge fee(s) indicated below Credit any overpayments				,	• ,	
Total Claims	Charge any additional fee(s) during the pendency of this application	1804	920*	1804	920*		
1. BASIC FILING FEE   Large Entity   Small Entity   Fee Fee   Fee Fee   Fee Fee   Fee Fee	Charge fee(s) indicated below, except for the filing fee	1805	1,840*	1805	1,840*		
1. BASIC FILING FEE   Large Entity   Small Entity	to the above-identified deposit account.						
1. BASIC FILING FEE   Large Entity   Small Entity   Fee	FEE CALCULATION					• •	
Total Claims						• •	
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1002   330   2002   165   Design filing fee						• •	
1002   330   2002   165   Design filing fee   1401   320   2401   160   Notice of Appeal   1402   320   2402   160   Filing a brief in support of an appeal   1403   280   2403   140   Request for oral hearing   1405   1407	1001 750 2001 375 Utility filing fee 750.00	1255		I		Extension for reply within fifth month	
1004 750   2004 375   Reissue filing fee   1403 280   2403 140   Request for oral hearing   1451 1,510   Petition to institute a public use proceeding   1451 1,510   2452 55   Petition to revive - unavoidable   1453 1,300   2453 650   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1452 110   2452 55   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1452 110   2452 55   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1452 110   2452 55   Petition to revive - unavoidable   1453 1,300   2453 650   Petition to revive - unavoidable   1453 1,300   2453 650   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1451 1,510   2452 55   Petition to revive - unintentional   1451 1,510   2452 110   2452 55   Petition to revive - unintention to revive - unintention to revive - unintention   1451 1,510   2452 110   2452 55   Petition to revive - unintention   1451 1,510   2452 110   2452 150   2452 55   Petition to revive - unintentional   1451 1,510   2452 110   2452 150   2452 150   2452 150   2453 150   2453 150   2453 150   2453 150   2453 150   2453 150   2453 150		1401				Notice of Appeal	
SUBTOTAL (1) (\$) 750.00  2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE    Extra Claims   See from   See Fee Fee   Fee Fee Code (\$)   180   2001   84   2201   42   142   142   145   150   145   145   150   145   145   150   145   145   150   145   145   145   1	1003 520 2003 260 Plant filing fee	1				* ''	
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Large Entity   Small Entity   Fee   Fee   Fee   Fee   Code (\$)   Code (\$)   Fee Description   8021   40   8021   40   Recording each patent assignment per property (times number of properties)   1809   750   2809   375   Filing a submission after final rejection (37 CFR 1.129(a))   1809   750   2810   375   For each additional invention to be examined (37 CFR 1.129(b))   1801   750   2801   375   Request for Continued Examination (RCE)   1802   900   1802   900   Request for expedited examination   Cother fee (specify)   1802   900   Request for expedited examination   Cother fee (specify)   1801   1806   180   Submission of Information Disclosure Stmt   1806   180   Submission of Information Disclosure Stmt   1802   8021   40   Recording each patent assignment per property (times number of properties)   1809   750   2809   375   Filing a submission after final rejection (37 CFR 1.129(a))   1801   750   2810   375   For each additional invention to be examined (37 CFR 1.129(b))   1801   750   2801   375   Request for Continued Examination (RCE)   1802   900   1802   900   Request for expedited examination   1801   750   1802   900							
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and over original patent  of a design application  Other fee (specify)  *Reduced by Basic Filing Fee Paid  *Reduced by Ba		1801	750	2801	375	Request for Continued Examination (RCE)	.
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SUBMITTED BY (Complete (if applicable)							
Name (Print/Type)	Jean M. Dickman	Registration No. (Attorney/Agent)	48,538	Telephone	816-474-6550		
Signature	Clan M.	Ackmar		Date	July 15, 2003		

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